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APPLICATION NO.	FILING DA	ATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/049,949	04/22/2002		Hildegard Romer	WEI0033	2546
7590 09/23/2004			EXAMINER		
John F Hoffman			HUG, ERIC J		
Baker & Daniels Suite 800				ART UNIT	PAPER NUMBER
111 East Wayı	ne Street	1731			
Fort Wayne, IN 46802				DATE MAILED: 09/23/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/049,949	ROMER ET AL.				
Offic	ce Action Summary	Examiner	Art Unit				
		Eric Hug	1731				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE MAILING - Extensions of time after SIX (6) MON - If the period for re - If NO period for re - Failure to reply with Any reply receiver	D STATUTORY PERIOD FOR REPL DATE OF THIS COMMUNICATION. e may be available under the provisions of 37 CFR 1.1 ITHS from the mailing date of this communication. ply specified above is less than thirty (30) days, a repl sply is specified above, the maximum statutory period thin the set or extended period for reply will, by statute d by the Office later than three months after the mailing m adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE.	mely filed ys will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).				
Status							
1) Respons	Responsive to communication(s) filed on 19 February 2002 and 22 April 2002.						
2a)☐ This acti	This action is FINAL . 2b)⊠ This action is non-final.						
, —	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Cl	aims						
4)⊠ Claim(s) <u>1-6</u> is/are pending in the application.							
4a) Of th	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s)	Claim(s) is/are allowed. Claim(s) <u>1-6</u> is/are rejected.						
, ,	Claim(s) is/are objected to.						
8) Claim(s)	are subject to restriction and/o	r election requirement.					
Application Pape	rs						
9)☐ The spec	cification is objected to by the Examine	er.					
10)⊠ The drawing(s) filed on <u>19 February 2002</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)∐ The oath	or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.				
Priority under 35	U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b)□ Some * c)□ None of:							
 Certified copies of the priority documents have been received. 							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
" See the a	ttached detailed Office action for a list	or the certified copies not receive	au.				
Attachment(s)							
1) Notice of Refere	ences Cited (PTO-892)	4) Interview Summar	y (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152)							
Paper No(s)/Ma		6) Other:					

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pieper (US 4,004,902) in view of Mantesa (US 4,780,121).

Pieper discloses a method and device for dyeing glass. Disclosed are a glass melting furnace 15, followed by a heated passage having a vertical portion 1 with heating electrodes 8, 9, a horizontal portion 2, and a downward portion 4 with mechanical agitation, followed by a feeder 13 to a subsequent processing device (not shown). A color feeding device 10 is positioned above the space where the glass is heated by the electrodes (see Figure and column 3, lines 53-56), or may be positioned at the outlet of the melting furnace before the heated passage (see column 3, lines 18-23). The heated passage arrangement provides for strong swirling flow of molten glass. The position of the feeding device in the vicinity of the heated passage provides for good color mixing in a short period of time and allows for rapid color changeover (see e.g., column 4, lines 53-60). There may also be a plurality of dyeing cells arranged downstream of the melting furnace so that several colors can be produced at various points at the same time (see column 4, line 67 to column 5, line 10). Pieper discloses all the claimed elements, arrangements thereof,

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and method steps, except for the claimed skull device. Instead, Pieper utilizes the electrode heated passage described above.

Mantesa discloses a melting device 10 connected to a heated receiving vessel 12 (which completes the melting), a subsequent refining device 35 and an induction heating vessel 20 with short residence time positioned after the heating vessel but before the refining device. Column 3, line 44 to column 4, line 23 describes the induction heated vessel as being characteristic of a skull device; note particularly the frozen layer described in column 4, lines 13-23 which separates the molten material from the vessel walls. This induction heated vessel has a short residence time and high degree of mixing similar to the heated passage of Pieper. However, Mantesa teaches that the induction heated vessel provides several advantages over using devices heated with electrodes, e.g., that the glass melt does not come in contact with the heating source, shorter residence times, smaller vessel, etc. See column 1, lines 12-18 and 36-38, column 2, lines 8-27. Therefore, at the time of the invention, it would have been obvious to one skilled in the art to substitute the heated passage of Peiper with the induction heating vessel, i.e., skull device, of Mantesa to obtain the aforementioned advantages thereof.

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The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Tiilikka (US 4,427,429) teaches adding color to molten glass between a furnace and subsequent heating step (column 1, lines 33-49).

Binder et al (US 5,268,925) discloses a U-shaped skull device.

Argent et al (US 5,588,978) discloses a process for coloring glass utilizing one or more transport channels between a melting furnace and a color treatment chamber.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric Hug whose telephone number is 571 272-1192. The examiner can normally be reached on Monday through Friday, 10:00 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 571 272-1189. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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